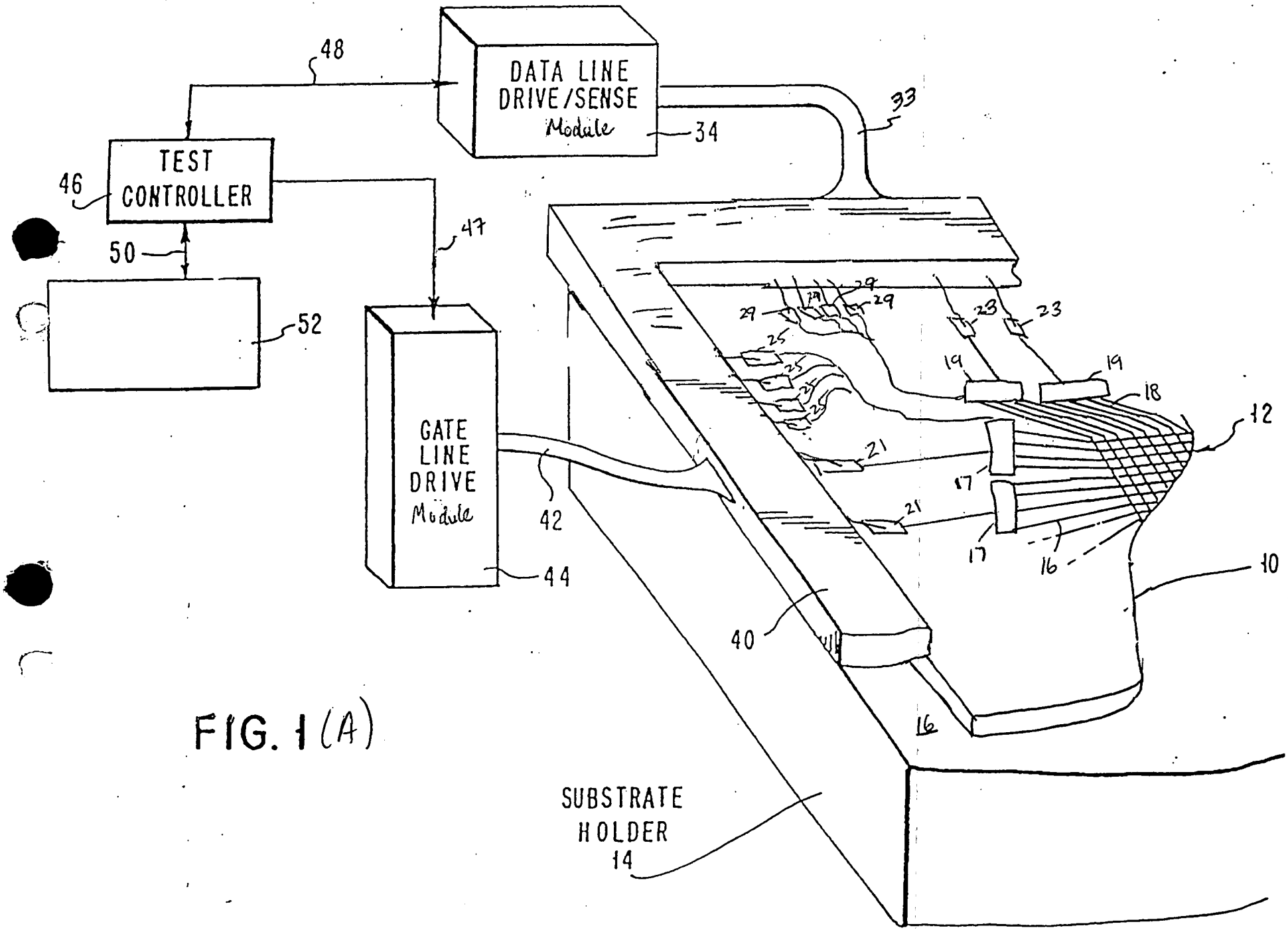

FIG. 1(A)

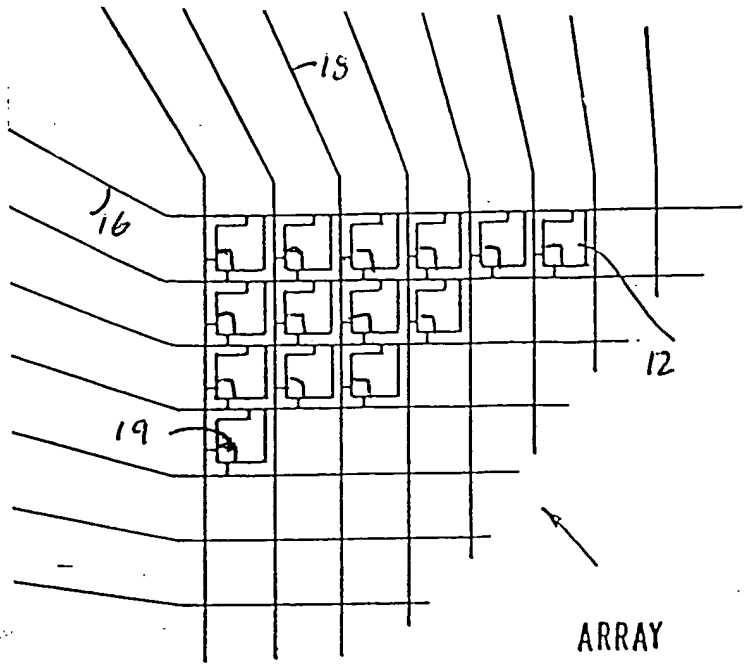

FIG. 1(B)

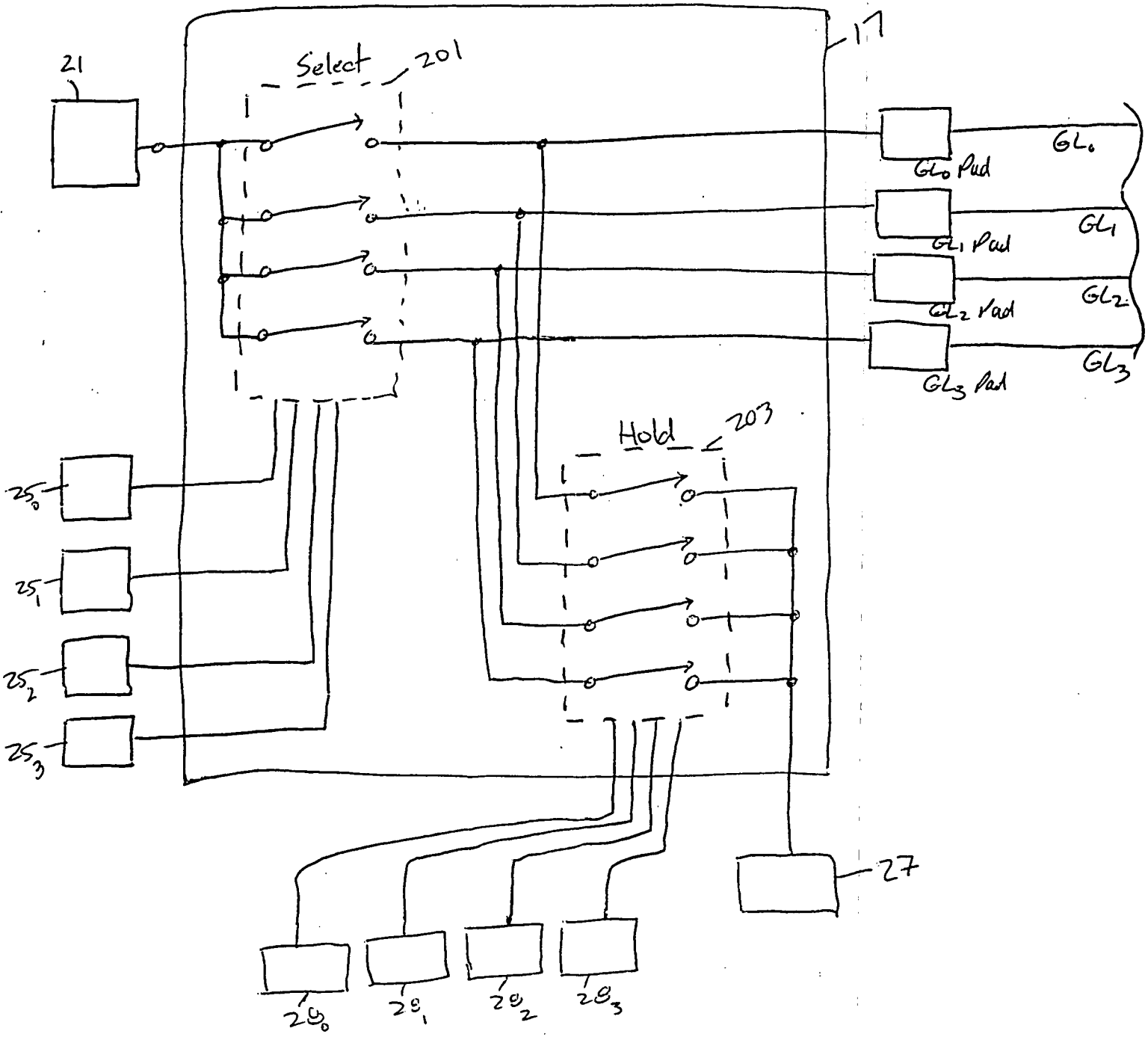

FIG. 2

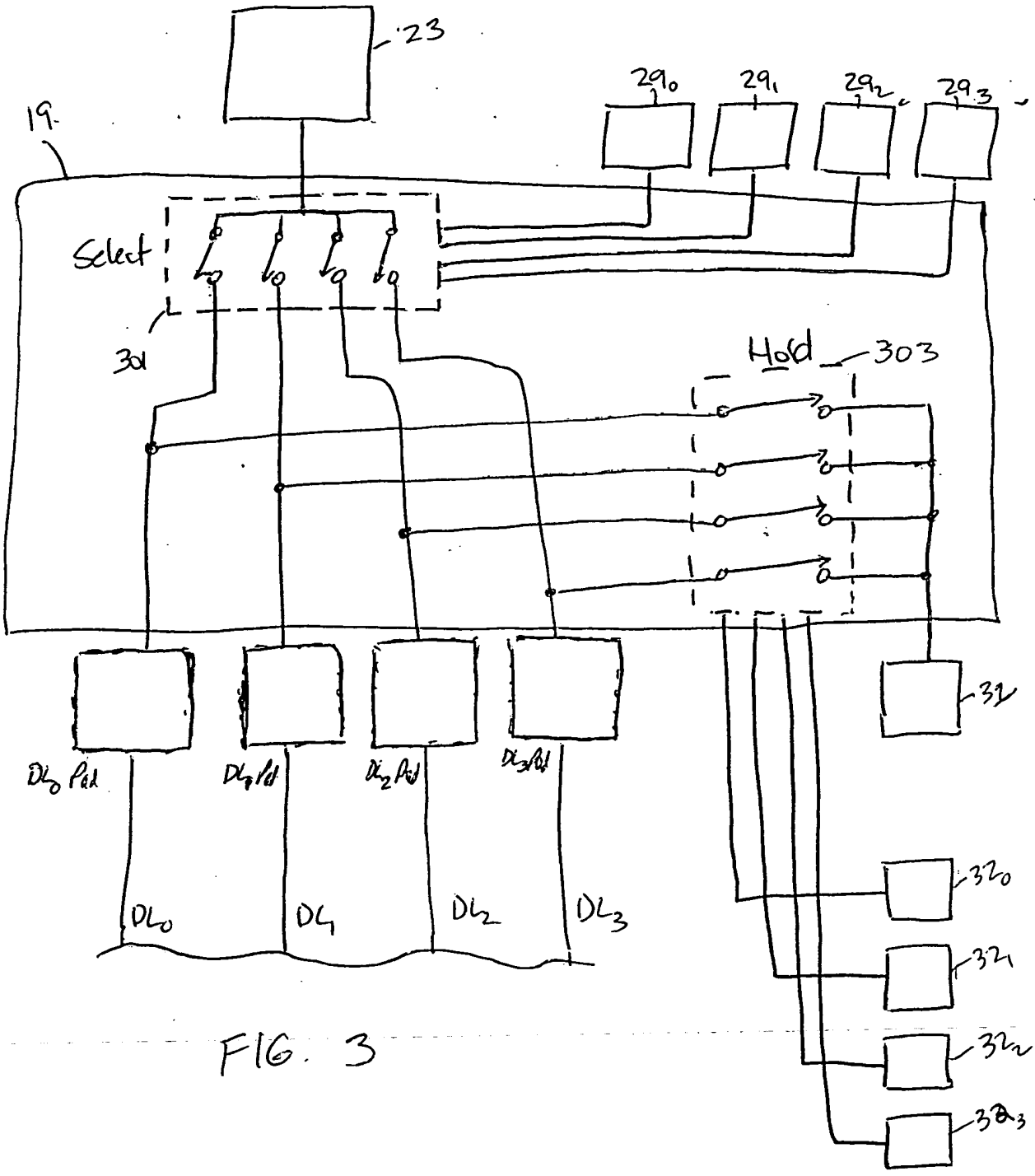
23
19
29_0
29_1
29_2
29_3
Select
301
Hold
303
31
32_0
32_1
32_2
32_3
DL_0 Pcl
DL_1 Pcl
DL_2 Pcl
DL_3 Pcl
DL_0
DL_1
DL_2
DL_3

FIG. 3

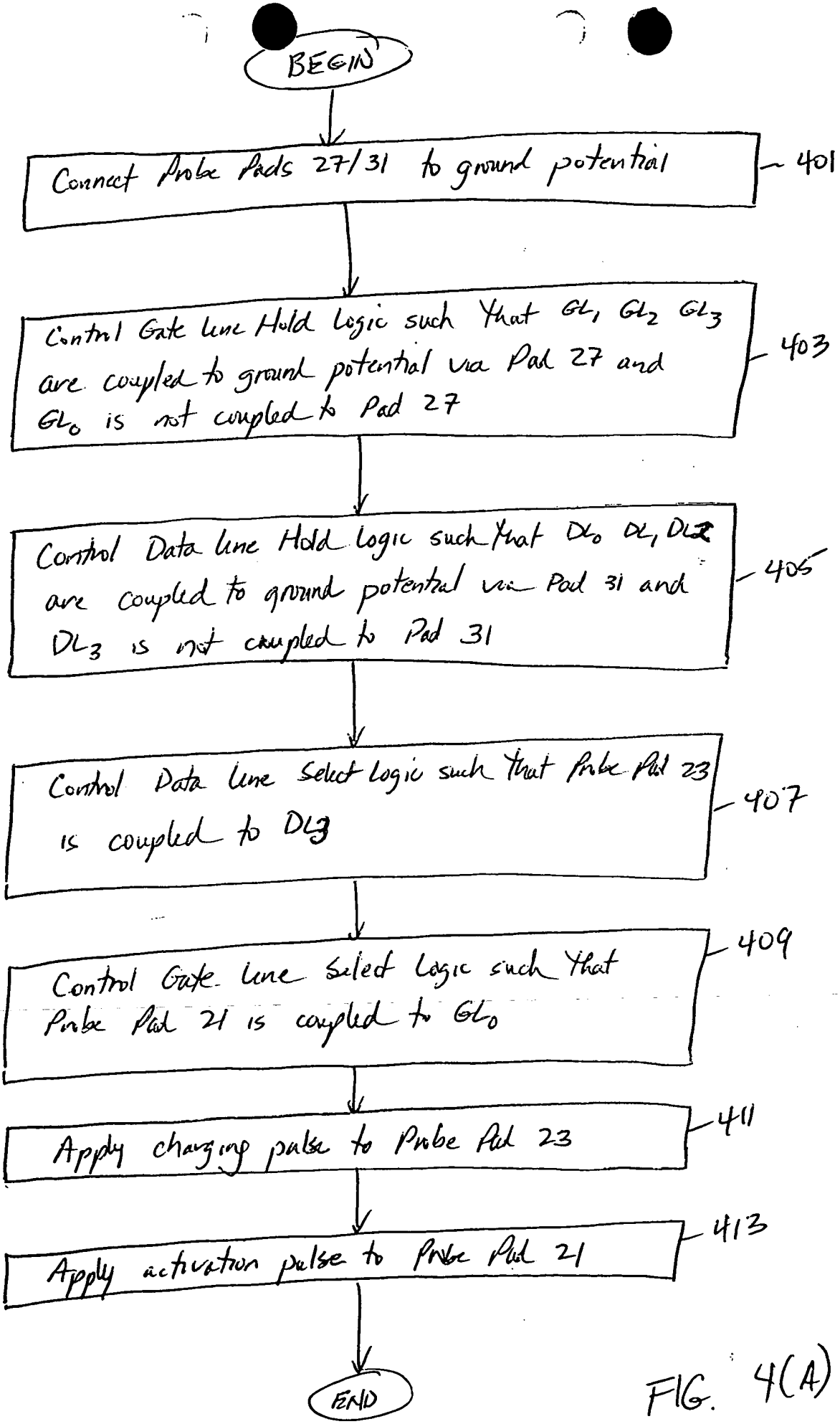
BEGIN
Connect Probe Pads 27/31 to ground potential
401
Control Gate line Hold Logic such that GL1 GL2 GL3 are coupled to ground potential via Pad 27 and GL0 is not coupled to Pad 27
403
Control Data line Hold Logic such that DL0 DL1 DL2 are coupled to ground potential via Pad 31 and DL3 is not coupled to Pad 31
405
Control Data line Select Logic such that Probe Pad 23 is coupled to DL3
407
Control Gate line Select Logic such that Probe Pad 21 is coupled to GL0
409
Apply charging pulse to Probe Pad 23
411
Apply activation pulse to Probe Pad 21
413
END

FIG. 4(A)

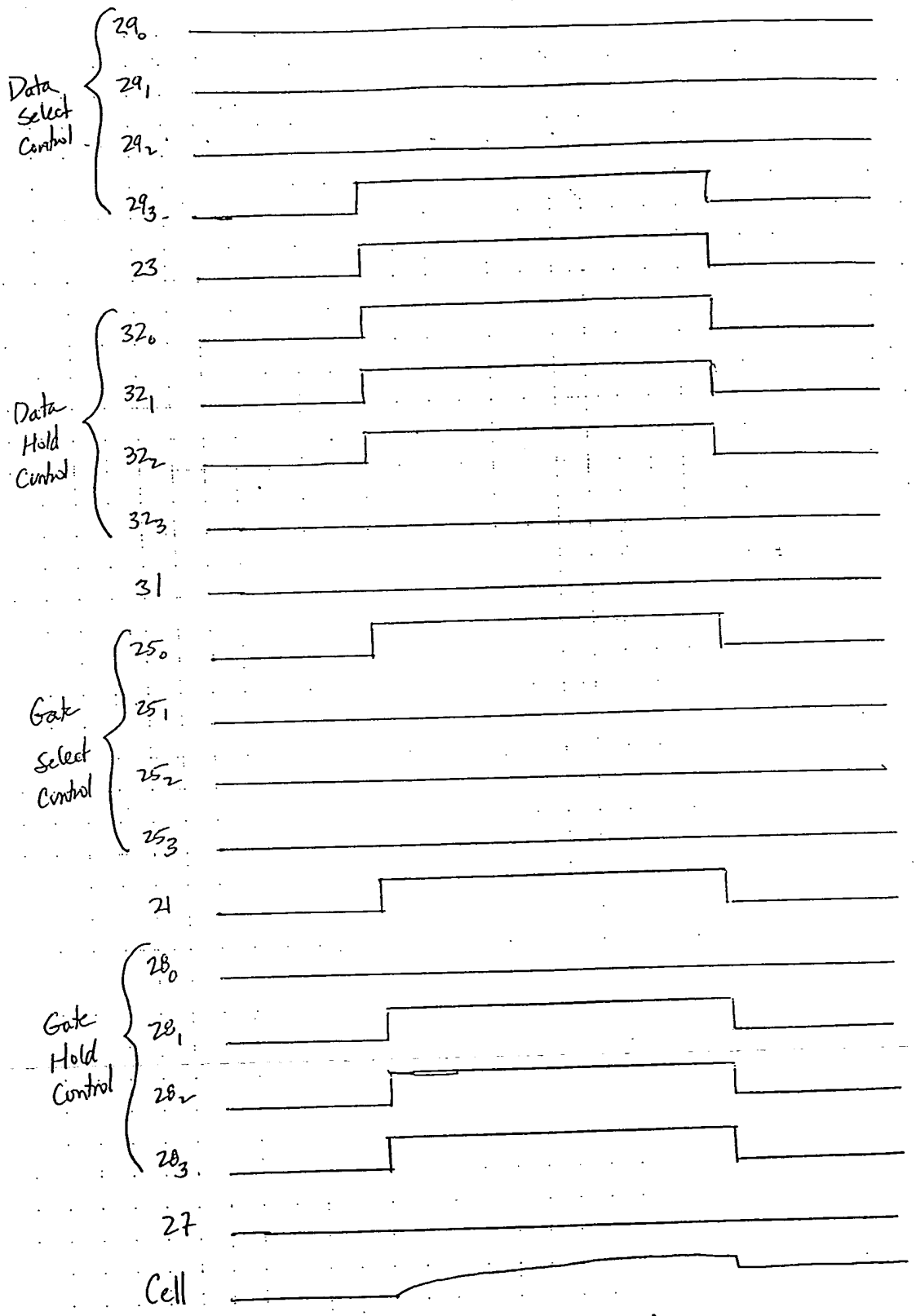
Data Select Control
29₀
29₁
29₂
29₃
23
Data Hold Control
32₀
32₁
32₂
32₃
31
Gate Select Control
25₀
25₁
25₂
25₃
21
Gate Hold Control
28₀
28₁
28₂
28₃
27
Cell

FIG. 4(B)

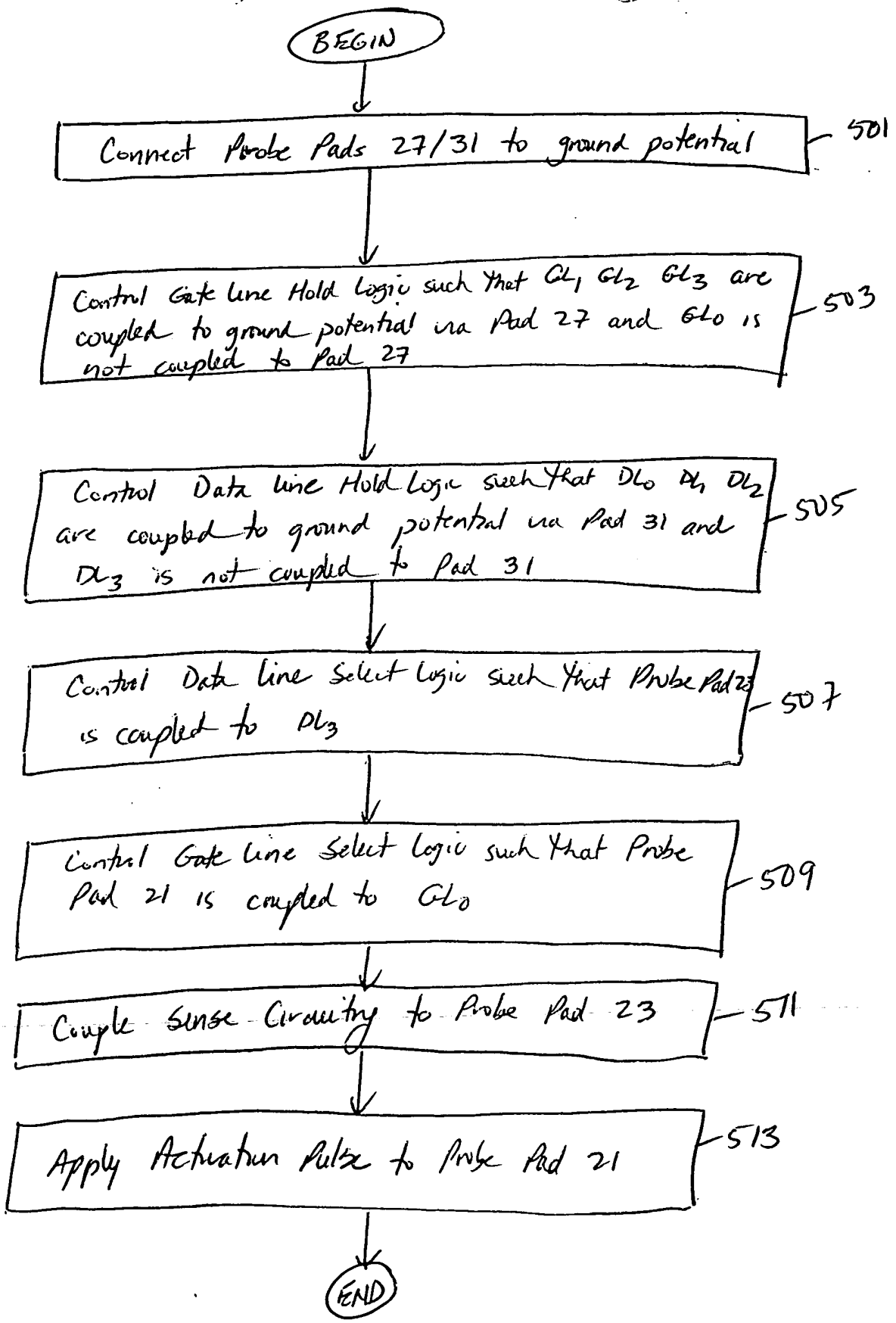
BEGIN
Connect Probe Pads 27/31 to ground potential
501
Control Gate Line Hold Logic such that GL_1 GL_2 GL_3 are coupled to ground potential via Pad 27 and GL_0 is not coupled to Pad 27
503
Control Data Line Hold Logic such that DL_0 DL_1 DL_2 are coupled to ground potential via Pad 31 and DL_3 is not coupled to Pad 31
505
Control Data Line Select Logic such that Probe Pad 23 is coupled to DL_3
507
Control Gate Line Select Logic such that Probe Pad 21 is coupled to GL_0
509
Couple Sense Circuitry to Probe Pad 23
511
Apply Activation Pulse to Probe Pad 21
513
END

FIG. 5(A)

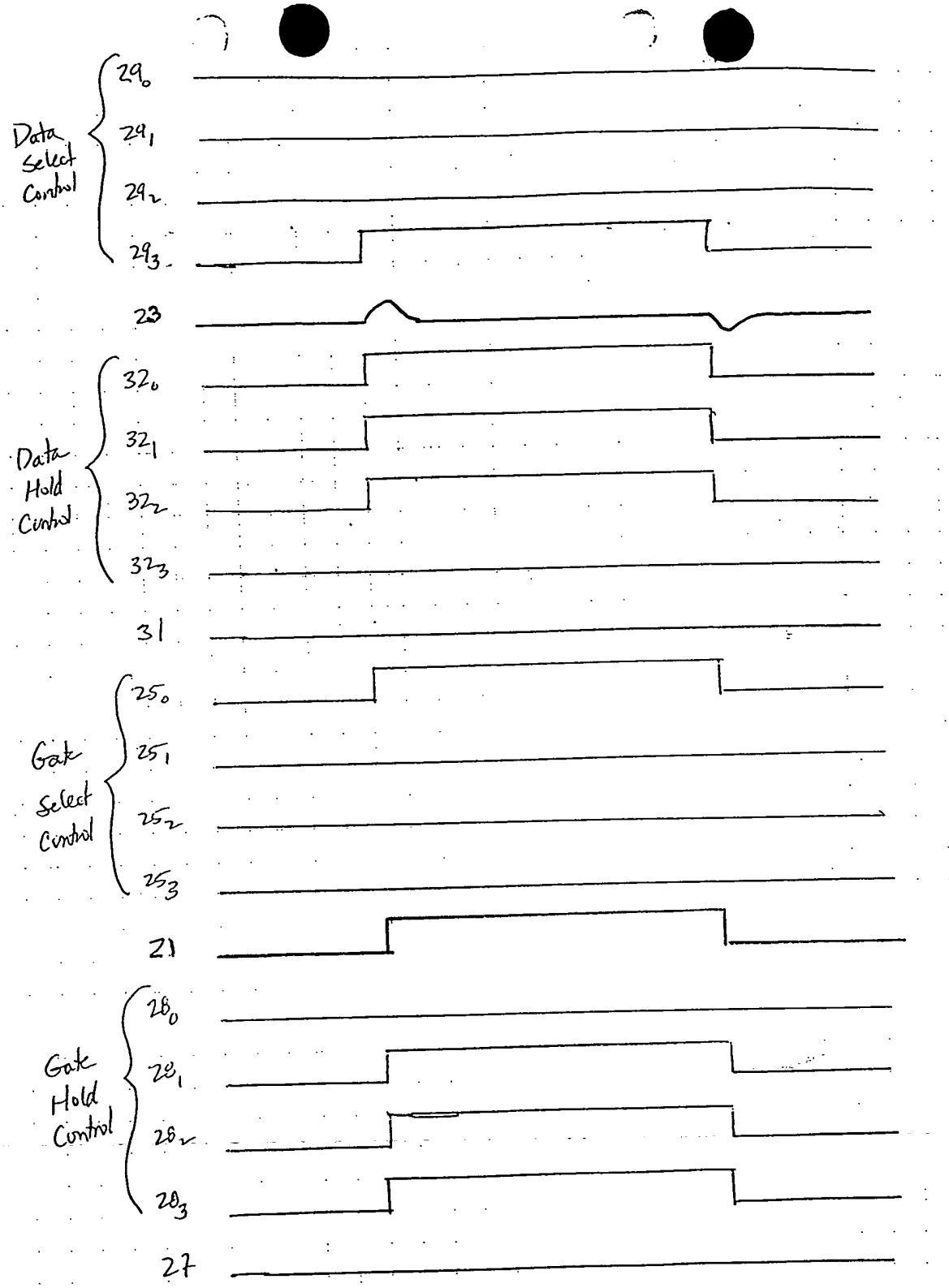
Data Select Control
29₀
29₁
29₂
29₃
23
Data Hold Control
32₀
32₁
32₂
32₃
31
Gate Select Control
25₀
25₁
25₂
25₃
21
Gate Hold Control
28₀
28₁
28₂
28₃
27
Waveform
①
②

FIG. 5(B)

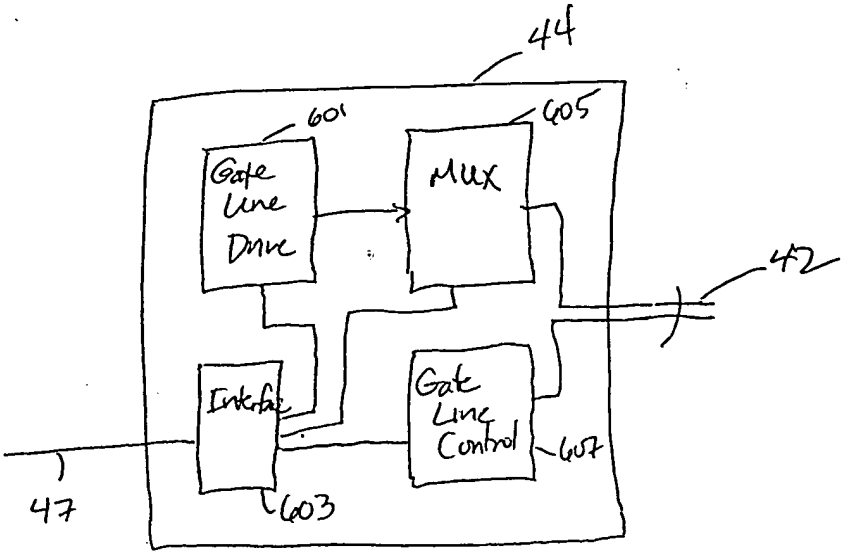
44
601
605
Gate Line Drive
Mux
42
Interface
Gate Line Control
607
47
603

FIG. 6

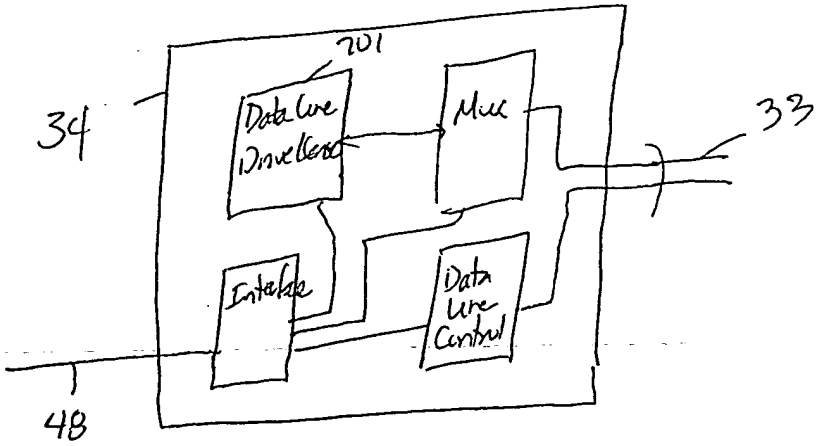
701
34
Data Line Driver Circuit
Mux
33
Interface
Data Line Control
48

FIG. 7

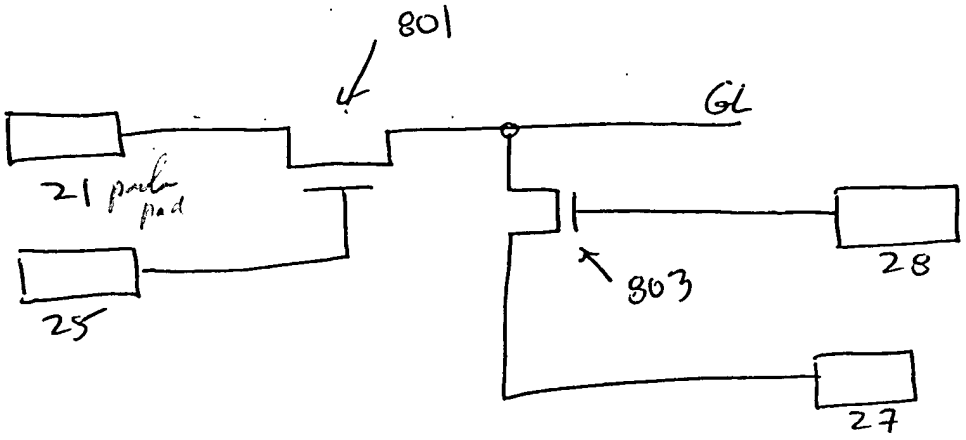

FIG. 8

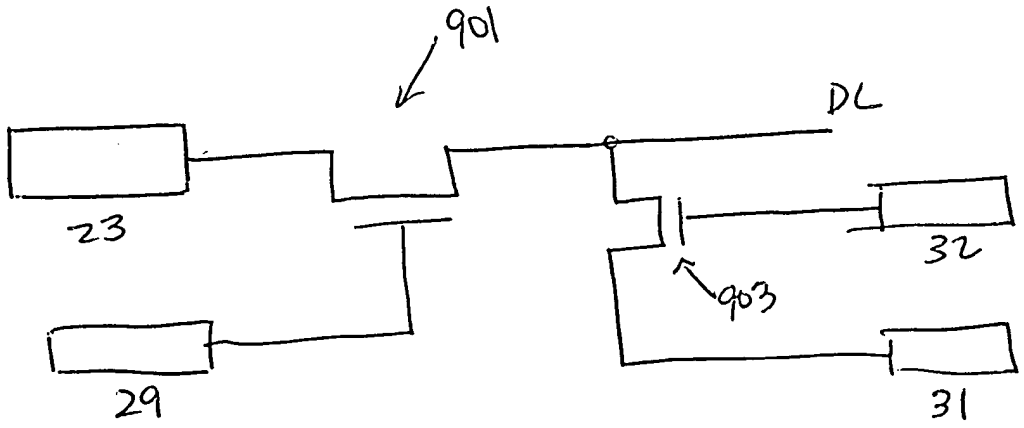

FIG. 9

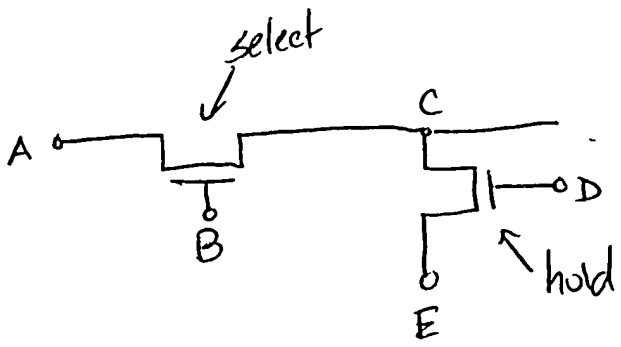

FIG. 10(A)

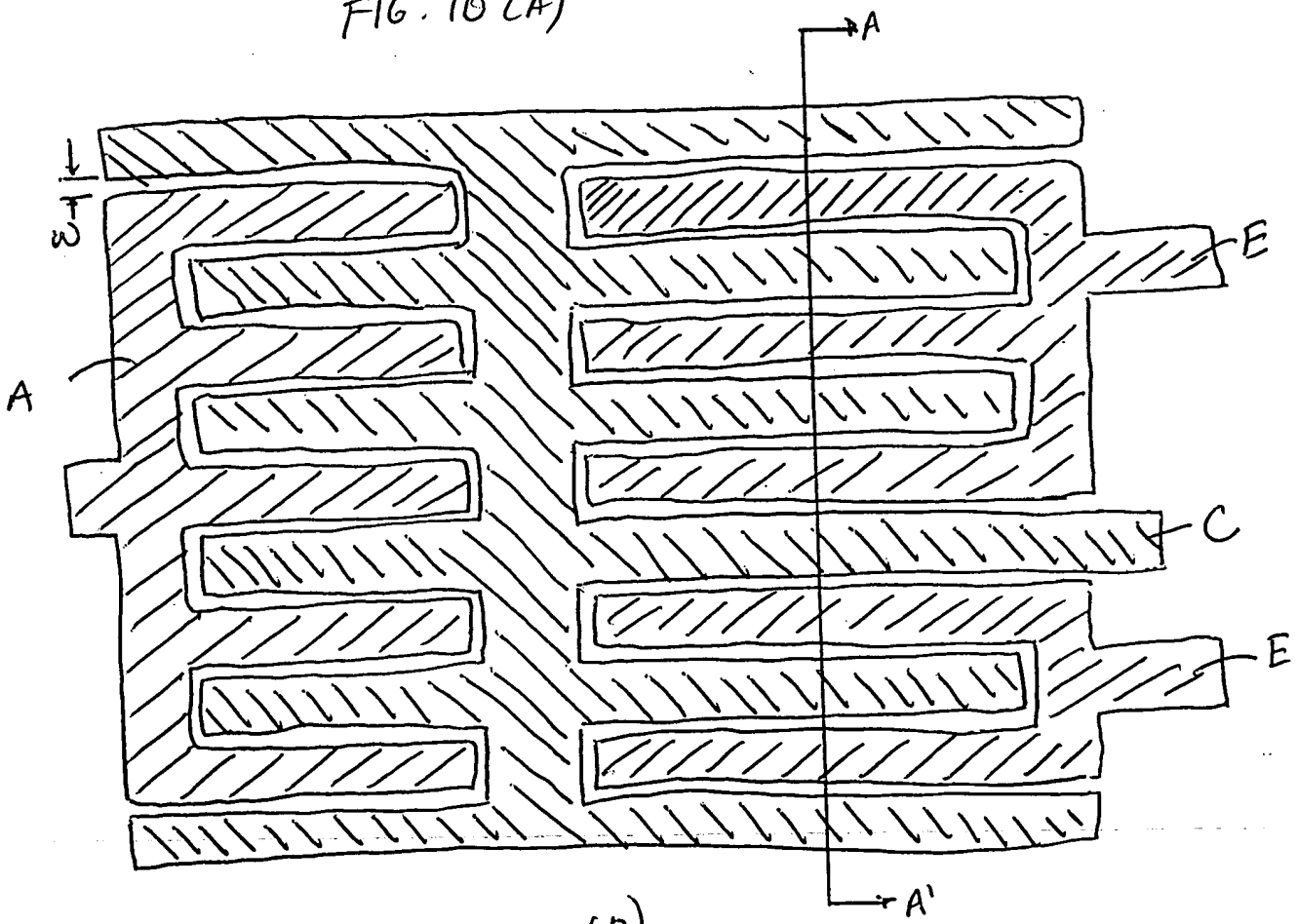

FIG. 10(B)

6682 FIG 10(CC) 260